

Fasco D792

Fasco D792 Condenser Motor Instruction Manual

INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Fasco D792 Condenser Motor. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

SAFETY INFORMATION

Always prioritize safety when working with electrical equipment. Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- **Qualified Personnel:** Installation, maintenance, and servicing should only be performed by qualified and authorized personnel.
- **Disconnect Power:** Always disconnect all power to the equipment at the main circuit breaker or fuse box before installing, servicing, or performing any maintenance on the motor.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses and electrical-rated gloves, during installation and maintenance.
- **Electrical Codes:** All wiring and electrical connections must comply with local and national electrical codes.
- **Voltage Verification:** Ensure the supply voltage matches the motor's specified voltage (208-230 volts) before connecting.
- **Grounding:** Ensure the motor is properly grounded to prevent electrical shock.

PRODUCT OVERVIEW

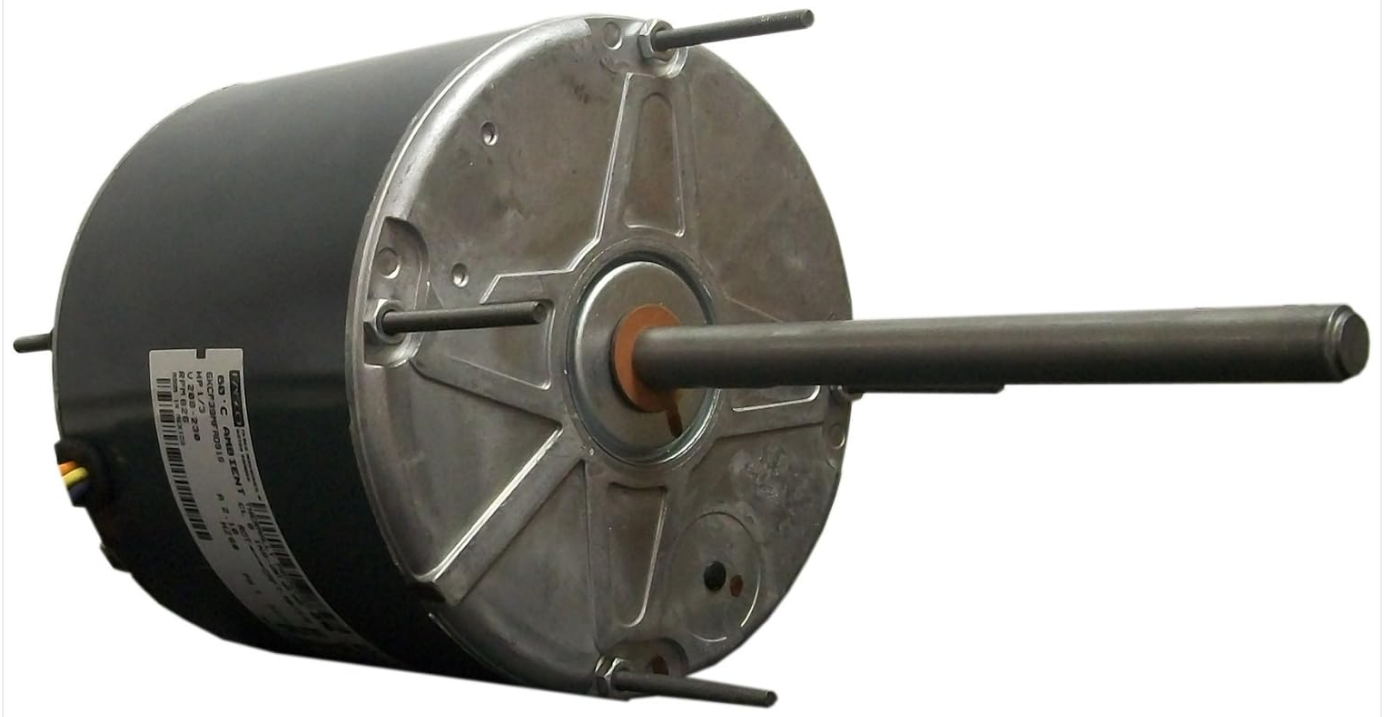
Product Description

The Fasco D792 is a single-phase, Permanent Split Capacitor (PSC) condenser motor designed for various applications requiring reliable and efficient air movement. It features a robust construction with a 5.6-inch frame diameter, delivering 1/4 horsepower at 825 RPM. The motor operates on a 208-230 volt electrical supply and incorporates durable ball bearings for extended operational life. Its design includes four tapped holes in the shell for versatile mounting and a 1/2 x 6-inch shaft dimension. The motor is rated for a 60-degree Celsius ambient temperature and supports all-angle mounting.

Key Features

- 5.6-Inch Frame Diameter
- 1/4 HP (Horsepower)
- 825 RPM (Revolutions Per Minute)
- 208-230 Volt Operation
- Ball Bearing Construction
- Reversible Rotation
- All-Angle Mount Bearings

Product Image



This image displays the Fasco D792 Condenser Motor. The motor features a cylindrical black body, a silver-colored end plate, and a protruding metal shaft. Four threaded studs are visible on the end plate for mounting. The motor's label with specifications is partially visible on the side of the black body.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the Fasco D792 Condenser Motor. Always ensure safety precautions are followed.

1. **Power Disconnection:** Before starting, ensure all power to the equipment is disconnected at the main circuit breaker. Verify with a voltage tester.
2. **Mounting:** Securely mount the motor using the four tapped holes on the shell. Ensure the motor is stable, level, and properly aligned with the driven component (e.g., fan blade). Use appropriate fasteners.
3. **Wiring:** Connect the motor wiring according to the wiring diagram provided with your specific equipment and local electrical codes. Verify the voltage (208-230 volts) matches the motor's requirements. Ensure all connections are tight and insulated.
4. **Shaft Connection:** Connect the motor shaft to the fan blade or other driven component. Ensure a secure fit and proper alignment to prevent vibration and premature wear. Do not force components onto the shaft.
5. **Capacitor:** If replacing an existing motor, ensure the correct capacitor is used as specified by the equipment manufacturer. An incorrect capacitor can lead to motor damage or inefficient operation.
6. **Final Check:** Before restoring power, double-check all electrical connections, mounting hardware, and shaft connections for security and correctness. Ensure no tools or debris are left inside the equipment.

OPERATION

The Fasco D792 Condenser Motor is designed for continuous operation within its specified parameters. Adhering to these guidelines will ensure optimal performance and motor life.

- **Voltage:** Ensure the operating voltage remains within the specified 208-230 volt range. Fluctuations outside this range can damage the motor.
- **RPM:** The motor is designed to operate at 825 RPM. Do not attempt to alter the motor speed unless specifically designed for variable speed control.
- **Rotation:** This motor supports reversible rotation. Refer to the wiring diagram provided with your equipment or motor for instructions on how to change the direction of rotation if necessary.
- **Ambient Temperature:** The motor is rated for a maximum ambient temperature of 60°C (140°F). Ensure adequate ventilation around the motor to prevent overheating, especially in enclosed spaces.
- **Load:** Do not overload the motor beyond its 1/4 HP rating. Overloading can lead to overheating and premature failure.

MAINTENANCE

Regular maintenance helps ensure the long life and efficient operation of your Fasco D792 Condenser Motor. Perform these checks periodically.

- **Cleaning:** Periodically clean the exterior of the motor to remove accumulated dust, dirt, and debris. Buildup can impede cooling and lead to overheating. Ensure power is disconnected before cleaning.
- **Inspection:** Regularly inspect the motor and its connections for any signs of wear, damage, corrosion, or loose connections. Check for frayed wires or damaged insulation.
- **Bearings:** This motor features sealed ball bearings, which are typically maintenance-free and require no lubrication. Do not attempt to lubricate sealed bearings unless specifically instructed by the manufacturer.
- **Vibration:** Check for excessive noise or vibration during operation. This could indicate an imbalance in the driven component (e.g., fan blade), loose mounting, or internal motor issues. Address any unusual vibrations promptly.
- **Wiring:** Ensure all electrical connections remain tight and free from corrosion. Loose connections can cause arcing and overheating.

TROUBLESHOOTING

This section provides general guidance for common issues you might encounter. For complex problems or if you are unsure, consult a qualified technician.

- **Motor Does Not Start:**
 - Check power supply and circuit breaker for tripped conditions.
 - Verify all wiring connections are correct and secure.
 - Inspect the capacitor for signs of damage (e.g., bulging, leaks) or incorrect rating.
 - Ensure the motor shaft is not obstructed or seized.
- **Motor Overheats:**
 - Check for proper ventilation around the motor; ensure air passages are not blocked.
 - Ensure the motor is not overloaded beyond its rated capacity.
 - Verify the operating voltage is correct and stable.
 - Clean any accumulated dust or debris from the motor's exterior.
- **Excessive Noise or Vibration:**

- Check motor mounting bolts for looseness and tighten if necessary.
- Inspect the driven component (e.g., fan blade) for balance, damage, or debris.
- Ensure the shaft connection is secure and properly aligned.
- If noise persists, internal bearing wear may be indicated, requiring professional service.

SPECIFICATIONS

Brand	Fasco
Model Number	D792
Frame Diameter	5.6-Inch
Horsepower (HP)	1/4 HP (0.25 HP)
Revolutions Per Minute (RPM)	825 RPM
Voltage	208-230 Volts
Amperage	1.8 Amp
Bearing Type	Ball Bearing
Phase	Single Phase
Shaft Dimension	1/2 x 6 Inches
Motor Length	4-1/4 Inches
Ambient Temperature Rating	60°C
Mounting	All Angle Mount, Four Tapped Holes in Shell
Item Weight	11.55 pounds
Product Dimensions	13.25 x 5.25 x 5.25 inches

WARRANTY AND SUPPORT

For detailed warranty information, technical assistance, or to inquire about replacement parts, please contact Fasco customer service directly. Keep your purchase receipt and product serial number as proof of purchase for any warranty claims. You can typically find contact information on the official Fasco website or on the product packaging.

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